

Notice of Allowability

Application No.

10/664,161

Examiner

Hoang V. Nguyen

Applicant(s)

CHOI, TAE-KYU

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 26 May 2005.
2. ☒ The allowed claim(s) is/are 1-39.
3. ☒ The drawings filed on 17 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4/22/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.



HOANG V. NGUYEN
PRIMARY EXAMINER

Allowable Subject Matter

1. Claims 1-39 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, Korean patent 20-0224749 (hereinafter KP '749) discloses an electric wave transmitting and receiving apparatus for a wireless terminal comprising a support member rotatably supported by the terminal; a vertical polarization antenna connected to the support member; a bias member which returns the support member to an original position from a rotated position; and a connector which electronically connects the vertical polarization antenna to a printed circuit board mounted in the terminal. KP '749, however, fails to specifically teach that the support member being rotatably supported in the terminal.

Claims 2-7 are allowed for depending on claim 1.

Regarding claim 8, KP '749 discloses an electric wave transmitting and receiving apparatus for a wireless terminal comprising a support member rotatably supported by the terminal; a vertical polarization antenna connected to the support member; a bias member which returns the support member to an original position from a rotated position; and a connector which electronically connects the vertical polarization antenna to a printed circuit board mounted in the terminal. KP '749, however, fails to specifically teach that the support member is rotatably support in the terminal; a circular polarization antenna connected to the support member; and a second connector which connects the circular polarization antenna to the printed circuit board.

Claims 9-11 are allowed for depending on claim 8.

Art Unit: 2821

Regarding claim 12, KP '749 discloses a wireless terminal comprising a body; a cover rotatably connected to the body; and a support member mounted on the body and supporting an antenna, wherein the support member rotates from a first position to a second position when the cover is opened relative to the body. KP '749, however, fails to specifically teach that the support member being rotatably mounted **within** the body.

Claims 13-15 and 22 are allowed for depending on claim 12.

Regarding claim 16, KP '749 discloses a wireless terminal comprising a body; a cover rotatably connected to the body; and a support member mounted on the body and supporting an antenna. KP '749, however, fails to specifically teach that the support member being rotatably mounted **within** the body.

Claims 17-21 are allowed for depending on claim 16.

Regarding claim 23, KP '749 discloses a wireless terminal comprising a body; a first antenna; a cover rotatably connected to the body; and a support member mounted on the body and supporting the first antenna, wherein the support member rotates from a first position to a second position when the cover is opened relative to the body. KP '749, however, fails to specifically teach that the support member being rotatably mounted **within** the body.

Claims 24-27 and 34 are allowed for depending on claim 23.

Regarding claim 28, KP '749 discloses a wireless terminal comprising a body; a first antenna; a cover rotatably connected to the body; and a support member mounted on the body and supporting the first antenna, wherein the support member rotates from a first position to a second position when the cover is opened relative to the body. KP '749, however, fails to specifically teach that the support member being rotatably mounted **within** the body; and an

Art Unit: 2821

electrical contact on the support member, wherein one end of the contact is coupled to the first antenna and a second end is coupled to a circuit of the terminal.

Claims 29-33 are allowed for depending on claim 28.

Regarding claim 35, KP '749 discloses a wireless terminal comprising a body; a first antenna; a cover rotatably connected to the body; and a support member mounted on the body and supporting the first antenna. KP '749, however, fails to specifically teach that the support member being rotatably mounted **within** the body; and a second antenna on the support member, wherein the first antenna is a vertical polarization antenna and the second antenna is a circular polarization antenna.

Claims 36-39 are allowed for depending on claim 35.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2821

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn
7/1/05



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PRIMARY EXAMINER